

HEBEI RUNFENG

FACTORY FACILITIES



Hebei Runfeng Cryogenic Equipment co., ltd was founded in October 2012, located in Raoyang, Hebei. it is a key member of Hebei Runfeng Enterprise Group. It is a emerging enterprises engaged in

cryogenic pressure vessel design, manufacturing, research and development and corresponding technical services. We have a long term cooperation with Low Temperature Speciality Zhejiang University, it's one of best national famous institution in China. Our factory have more than 200 workers, including

20 high-tech talent and engineers, also we hire famous professors in this field to insure the advantages and developed technology. Now we become supplier of cryogenic deep cold solution in China.

Our focus is cryogenic pressure vessels, Dewar, LNG station equipment, industry gas equipment system products, it is versatile in the field of industry gas. LNG, steel, air separation industry, head industry, CNG and oil industry etc.

Our product dewar for CO2 had become practical and new type patent products in China. That's improved more about our quality. Our tagline is become your lifelong trustworthy and honest supplier.



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CRYOGENIC CYLINDERS APPLICATION

Welding and Cutting



Live Fish Carrier



Biological storage and research



Mining Blasting



Advantages:

Lower storage pressure, multistage safety device, easy operation.

1. Large storage capacity, 6 cube dewar is equal with 30 steel gas bottles. Save more transportation and storage cost.
2. The output gas purity can get oxygen $\geq 99.2\%$, nitrogen $\geq 99.999\%$, argon $\geq 99.995\%$, CO₂ $\geq 99.9\%$
3. Automatic pressure boosting system, internal installed vaporizer.
4. It can be work without any power.

Vertical Liquid Cylinder



Vertical liquid cylinder–Dewar is multi-layer heat insulating removable cryogenic liquid vessel, to store, transport the liquid oxygen(LO₂),liquid argon(LAr), liquid nitrogen(LN₂),liquid carbon dioxide(LCO₂)and liquid natural gas(LNG). It can be applied to the plant of gas supply, smaller pipeline concentrates gas supply.

MP series (Low Pressure)

- DPL450-175-1.37
- DPL450-195-1.37
- DPL450-210-1.37

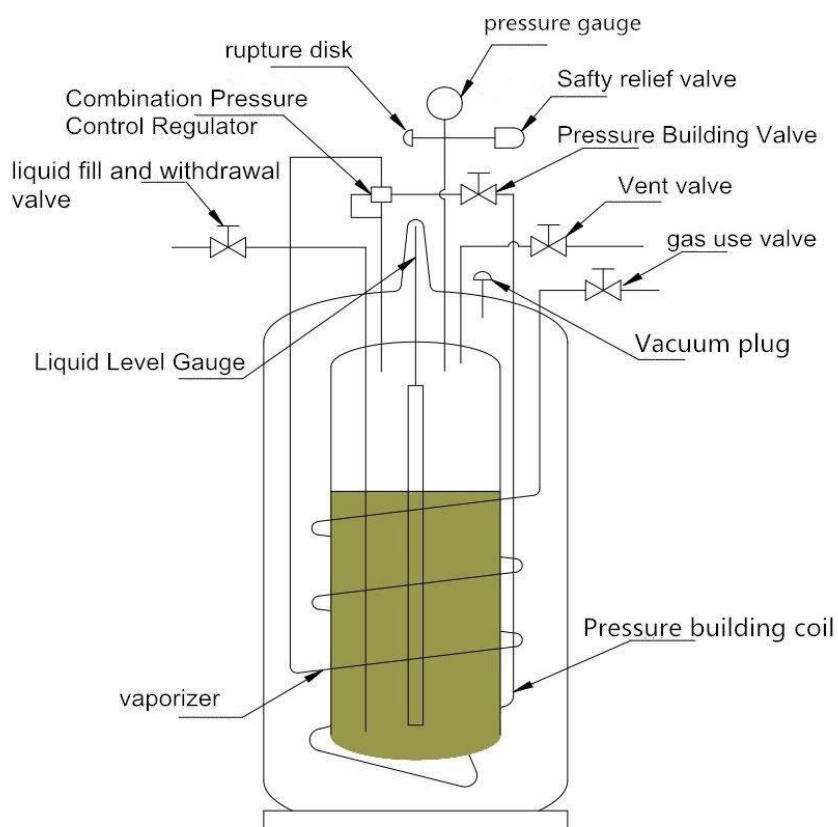
HP series (Middle Pressure)

- DPL450-175-2.3
- DPL450-195-2.3
- DPL450-210-2.3

VP series (High Pressure)

- DPL450-175-2.88
- DPL450-195-2.88
- DPL450-210-2.88

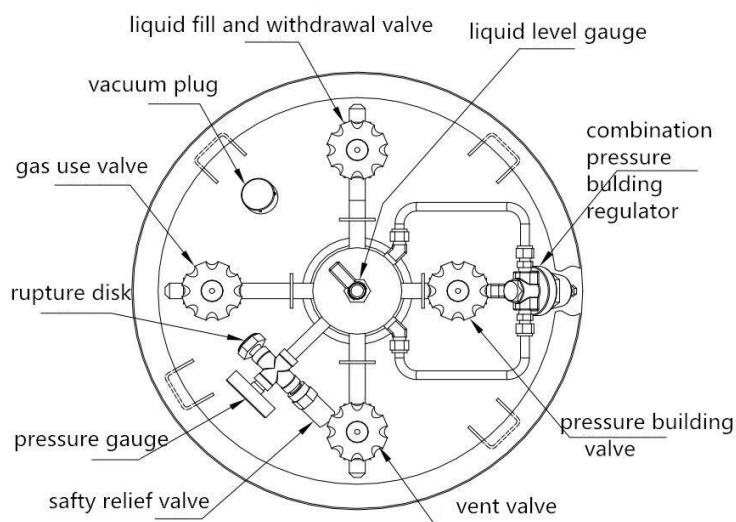
Cylinder Body



Valves



Vertical Cryogenic cylinder&Apparatus



SPECIFICATIONS

Welded insulated cylinder (Vertical)												
ITEM	MP Series											
Model	DPL450-175-1.37			DPL450-195-1.37				DPL450-210-1.37				
Dimension(O.D. ×H) mm	φ 505×1551			φ 505×1676				φ 505×1761				
Nominal Volume L	175			195				210				
Effective Volume L	160			180				195				
Service Pressure Mpa	1.37			1.37				1.37				
Empty Weight (Kg)	116			125				142				
Setting Pressure of Safety Device Mpa	Filling LNG, 1 class safety valve setting pressure :1.59, 2 class valve pressure:2.41 Filling LO ₂ /LN ₂ /LAr,safety valve setting pressure : 1.59, Burst pressure of bursting disc:2.4											
Filling Medium	LO ₂	LN ₂	LAr	LNG	LO ₂	LN ₂	LAr	LNG	LO ₂	LN ₂	LAr	LNG
Max. Filling Weight kg	170	120	208	70	190	134	232	78	205	145	250	84
Standard Volume Nm ³	119	96	116	97	133	107	130	109	143	116	140	117
Evaporation Rate %/d	LN ₂ ≤2.1			LN ₂ ≤2.02				LN ₂ ≤1.99				
Liquid Level Gauge	Float			Float				Float				
Surface Treatment	Polish			Polish				Polish				

ITEM	HP series												
Model	DPL450-175-2.3				DPL450-195-2.3				DPL450-210-2.3				
Dimension(O.D. ×H) mm	φ 505×1551				φ 505×1676				φ 505×1761				
Nominal Volume L	175				195				210				
Effective Volume L	160				180				195				
Service Pressure Mpa	2.3				2.3				2.3				
Empty Weight (Kg)	133				145				160				
Setting Pressure of Safety Device Mpa	Filling LNG, 1 class safety valve setting pressure :2.41, 2 class valve pressure:3.45 Filling LO ₂ /LN ₂ /LAr,,safety valve setting pressure :2.41, Burst pressure of bursting disc:3.62												
Filling Medium	LO ₂	LN ₂	LAr	LNG	LCO ₂	LO ₂	LN ₂	LNG	LCO ₂	LO ₂	LN ₂	LAr	LNG

Max. Filling Weight kg	170	120	208	70	164	190	134	78	183	205	145	250	84
Standard Volume Nm ³	119	96	116	97	83	133	107	109	93	143	116	140	117
Normal Evaporation Rate %/d	LN ₂ ≤2.1				LN ₂ ≤2.02				LN ₂ ≤1.99				
Liquid Level Gauge	Float				Float				Float				
Surface Treatment	Polish				Polish				Polish				

ITEM	VP series											
Model	DPL450-175-2.88				DPL450-195-2.88				DPL450-210-2.88			
Dimension(O.D. ×H) mm	φ 505×1551				φ 505×1676				φ 505×1761			
Nominal Volume L	175				195				210			
Effective Volume L	160				180				195			
Service Pressure Mpa	2.88				2.88				2.88			
Empty Vessel W (kg)	158				169				169			
Setting Pressure of Safety Device Mpa	Safety valve setting pressure :3.45 Burst pressure of bursting disc: 5.17											
Filling Medium	LO ₂	LN ₂	LAr	LCO ₂	LO ₂	LN ₂	LAr	LCO ₂	LO ₂	LN ₂	LAr	LCO ₂
Max. Filling W (kg)	170	120	208	164	190	134	232	183	205	145	250	197
Standard Volume Nm ³	119	96	116	83	133	107	130	93	143	116	140	100
Normal Evaporation Rate %/d	LN ₂ ≤2.1				LN ₂ ≤2.02				LN ₂ ≤1.99			
Liquid Level Gauge	Float				Float				Float			
Surface Treatment	Polish				Polish				Polish			

Horizontal Liquid Cylinder



The production of horizontal type cryogenic cylinder adopts advanced technologies and processes, compliant with the Quality Assurance System strictly. The cylinder contains stainless steel inner vessel, outer vessel, high vacuum insulation, inner vaporizer and the valves pipes system. It is widely used in **electronics, chemical, welding industries.**

MP series

- DPL650-410-1.59
- DPL650-499-1.59

HP series

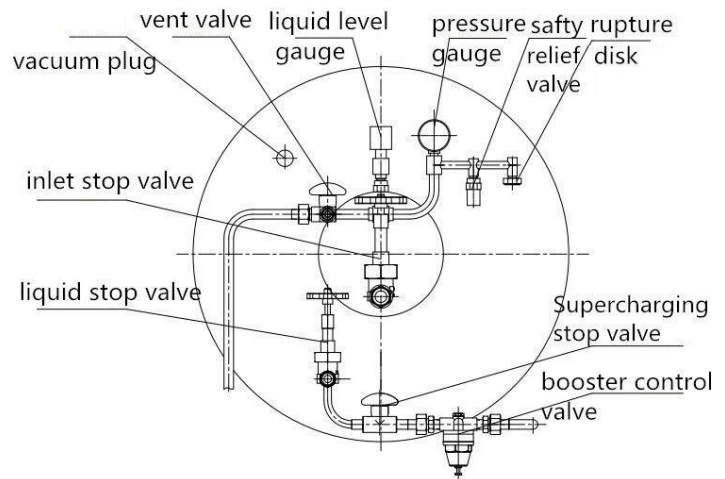
- DPL650-499-2.5

VP series

- DPL650-499-3.45



Horizontal cryogenic cylinder&Apparatus

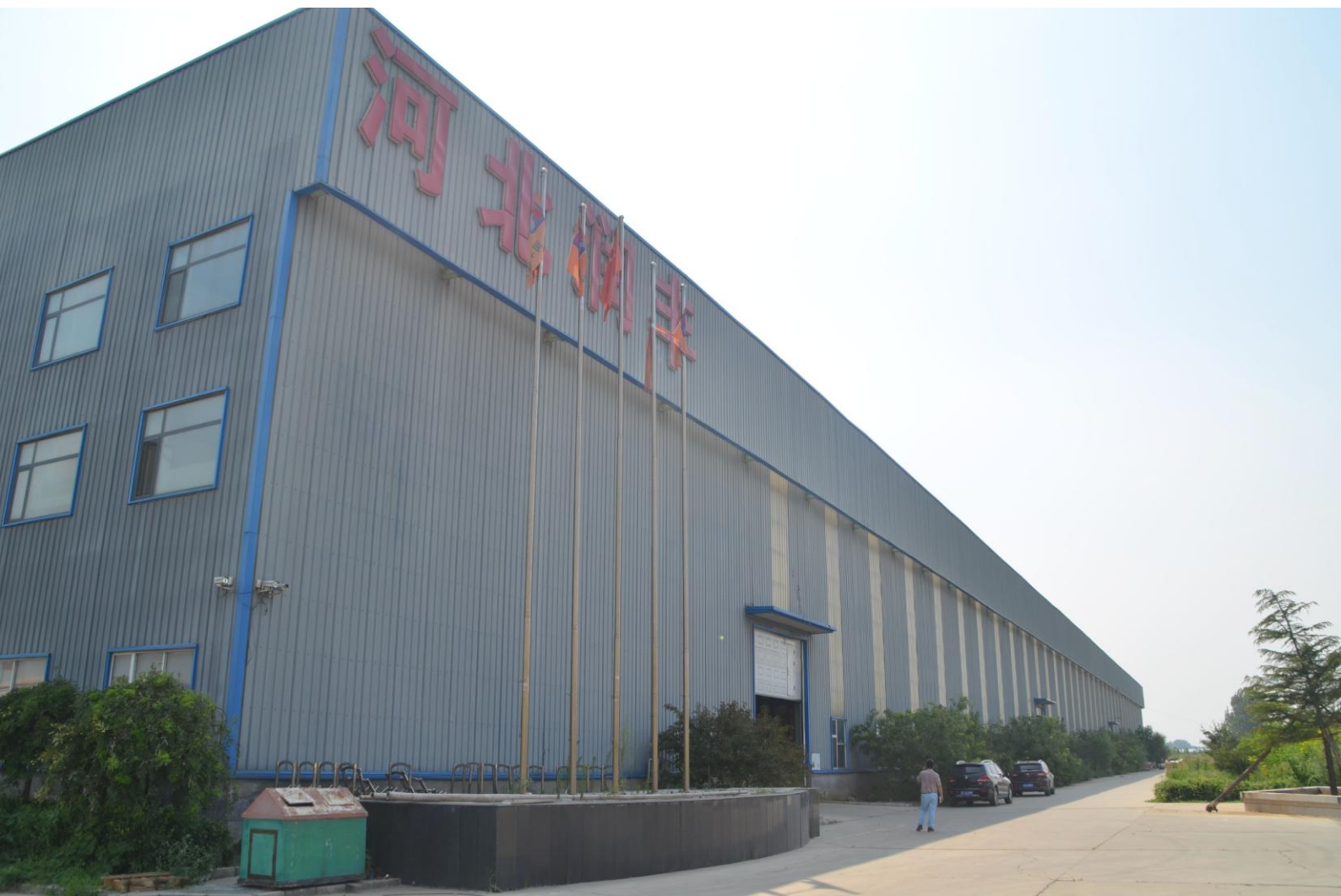


SPECIFICATIONS

Welded Insulated Cylinder (Horizontal)							
ITEM	MP Series						
Model	DPW650-410-1.59			DPW650-499-1.59			
Dimension(O.D. ×H)mm	2120×762×1070						
Nominal Volume L	410			499			
Effective Volume L	377			459			
Empty Vessel W kg	346			365			
Service Pressure Mpa	1.59						
Setting Pressure of Safety Device Mpa	Filling LNG, 1 class safety valve setting pressure :1.9, 2 class valve pressure:2.41 Filling LO2/LN2/LAr,,safety valve setting pressure :1.9, Burst pressure of bursting disc:2.4						
Filling Medium	LNG			LNG	LO2	LN2	Lar
Max. Filling W kg	160			196	478	334	585
Standard Volume Nm3	225			276	335	266	323
Normal Evaporation Rate %/d	LN2≤1.82			LN2≤1.7			
Liquid Level Gauge	Capacitive						
Surface Treatment	Polish						
Application	Used for the glass industry, oxygen enriched combustion, metal cutting and welding, hospital medical, fishing truck using,gas replacement for vessels and pipelines, medical refrigerants, gas protection for stainless steel thin sheet metal cutting, gas protection for metal welding and processing, also used for city public facilities and civilian domestic gas and coal to gas boiler combustion.						

Welded Insulated Cylinder (Horizontal)	
ITEM	MP Series
Model	DPW650-499-2.5
Dimension(O.D. ×H)mm	2120×762×1070
Nominal Volume L	499
Effective Volume L	459
Empty Vessel W (Kg)	430
Service Pressure Mpa	2.5
Setting Pressure of Safety Device Mpa	Filling LNG, 1 class safety valve setting pressure :2.86, 2 class valve pressure:4.15 Filling LO2/LN2/LAr, safety valve setting pressure :2.86, Burst pressure of bursting disc:3.6
Filling Medium	LNG、 LO2 、 LN2 、 LAr、 LCO2
Max. Filling W (kg)	196 478 334 585 460
Standard Volume Nm ³	276 335 266 323 250
Normal Evaporation Rate %/d	LN2≤1.7
Liquid Level Gauge	Capacitive
Surface Treatment	Polish
Application	Used for metal welding and cutting, gas replacement for vessels and pipelines, medical refrigerants, gas protection for medium-thickness stainless steel sheet metal cutting, gas protection for metal welding and processing, also used for city public facilities and civilian domestic gas, coal to gas boiler combustion, refrigerant business and mine cracking equipment.

Welded Insulated Cylinder (Horizontal)	
ITEM	MP series
Model	DPW650-410-3.45 DPW650-499-3.45
Dimension(O.D. ×H)mm	2120×762×1070
Nominal Volume L	410 499
Effective Volume L	377 459
Empty Vessel W (Kg)	485
Service Pressure Mpa	3.45
Setting Pressure of Safety Device Mpa	Filling LNG, 1 class safety valve setting pressure :4.15, 2 class valve pressure:4.5 Filling LO2/LN2/LAr/LCO2, safety valve setting pressure :4.15, Burst pressure of bursting disc:5.17
Filling Medium	LNG LNG LO2 LN2 LAr
Max. Filling W kg	160 196 478 334 585
Standard Volume Nm ³	225 276 335 266 323
Normal Evaporation Rate %/d	LN2≤1.82 LN2≤1.7
Liquid Level Gauge	Capacitive Capacitive
Surface Treatment	Polish Polish
Application	Used for metal welding and cutting, gas replacement for vessels and pipelines, medical refrigerants, gas protection for medium-thickness stainless steel sheet metal cutting, gas protection for metal welding and processing, also used for city public facilities and civilian domestic gas, coal to gas boiler combustion, refrigerant business and mine cracking equipment.



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